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Amendment and Response to Restriction Requirement

Applicant: Oskar Neuhoff et al. Serial No.: 10/511,945 Filed: June 15, 2005

Docket No.: 1431.115.101/FIN 387 PCT/US

Title: PACKAGING SYSTEM WITH A TOOL FOR ENCLOSING ELECTRONIC COMPONENTS AND METHOD OF

POPULATING A CARRIER TAPE

## IN THE CLAIMS

Please add claims 46-54.

1-22. (Cancelled)

23. (Previously Presented) A method of populating a carrier tape with components, comprising:

providing a packaging system;

providing a carrier tape in the packaging system with passage openings for populating the carrier tape with components;

picking up individual components from a support table arranged underneath a guide plate of the packaging system by means of a vacuum pipette;

lifting the component into one of the passage openings in the carrier tape by means of a vertical lifting movement of the vacuum pipette;

wiping the component off the vacuum pipette by means of the carrier tape;

picking up the component and the carrier tape as they are wiped off the vacuum pipette by means of an upper guide and by means of a lower guide;

closing an upper side of the tape by applying an upper cover film; and closing an under side of the tape by applying a lower cover film.

- 24. (Previously Presented) The method of claim 23, wherein the components are lifted from below by a lifting needle.
- 25. (Previously Presented) The method of claim 24, wherein the vacuum pipette and the lifting needle carry out a vertical lifting movement through a first opening in the guide plate.
- 26. (Previously Presented) The method of claim 23, wherein at least the vacuum pipette carries out a horizontal movement in a conveying direction of the carrier tape as it inserts a component into a passage opening in the carrier tape.

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27. (Previously Presented) The method of claim 23, wherein the lower cover film is applied underneath a vacuum suction device, which prevents the components falling out of the passage openings in the carrier tape.

- 28. (Previously Presented) The method of claim 23, wherein the upper and lower cover film are applied by means of a heating device in an adhesive manner to the upper side of the tape and to the underside of the tape.
- 29. (Previously Presented) The method of claim 23, wherein the upper and the lower cover film are adhesively bonded to the upper side and underside of the tape.
- 30. (Previously Presented) The method of claim 23, wherein the carrier tape used is a paper tape which has passage openings to hold components.
- 31. (Withdrawn) A packaging system comprising:
- a guide plate for the linear guidance of a carrier tape that can be populated with components;
  - a passage opening being provided in the guide plate;
  - at least one cover film device for applying a cover film; and
- a carrier-tape populating tool, wherein the carrier-tape populating tool has a vacuum pipette and a lifting needle, wherein a lifting movement can be carried out by the carrier-tape populating tool, and wherein the carrier-tape populating tool can be moved through the passage opening in the guide plate.
- 32. (Withdrawn) The packaging system of claim 31, wherein the vacuum pipette has a lifting direction at right angles to a conveying direction of the carrier tape and through the passage openings in the latter.

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33. (Withdrawn) The packaging system of claim 31, wherein the lifting needle has a lifting direction at right angles to a conveying direction of the carrier tape and as far as a lower edge of the passage openings in the latter.

- 34. (Withdrawn) The packaging system of claim 31, wherein lifting movements of the vacuum pipette and of the lifting needle are in each case synchronized.
- 35. (Withdrawn) The packaging system of claim 32, wherein the vacuum pipette has a horizontal movement component in the same direction as the conveying direction of the carrier tape.
- 36. (Withdrawn) The packaging system of claim 31, wherein the components are applied to a blank in rows and in columns, and are held together by a carrier film.
- 37. (Withdrawn) The packaging system of claim 36, wherein the blank with the carrier film is applied to a support table that can be displaced horizontally.
- 38. (Withdrawn) The packaging system of claim 37, wherein the support table can be displaced in a first horizontal direction parallel to the conveying direction of the carrier tape and in a second horizontal direction at right angles thereto.
- 39. (Withdrawn) The packaging system of claim 37, wherein the support table has a second opening of greater diameter than the lifting needle, which can in each case be brought into a position located vertically underneath a passage opening in the carrier tape.
- 40. (Withdrawn) The packaging system of claims 31, wherein the guide plate has a first opening of greater diameter than an outline of a component, through which opening the linear lifting axes of the vacuum pipette and of the lifting needle extend centrally.

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41. (Withdrawn) The packaging system of claim 31, further including a feed device for the upper cover film behind the pick-up device in a conveying direction of the carrier tape.

- 42. (Withdrawn) The packaging system of claims 31, further including a feed device for the lower cover film behind the pick-up device in a conveying direction of the carrier tape.
- 43. (Withdrawn) The packaging system of claims 42, wherein the feed device for the lower cover film is arranged behind a feed device for the upper cover film in the conveying direction of the carrier tape.
- 44. (Withdrawn) The packaging system of claim 42, further including a vacuum suction device provided above the feed device for the lower cover film, to raise the electronic components into their passage openings.
- 45. (Withdrawn) A packaging system comprising:
- a guide plate for the linear guidance of a carrier tape that can be populated with components;
  - a passage opening being provided in the guide plate;
  - at least one cover film device for applying a cover film; and

means for populating the carrier tape including a vacuum pipette and a lifting needle, wherein the means for populating has a lifting movement and can be moved through the passage opening in the guide plate.

46. (New) A method of placing components on a carrier tape within a packaging system, the method comprising:

picking up individual components from a support table arranged underneath a guide plate of the packaging system by a lifting means;

lifting the component into a passage openings in the carrier tape by means of a vertical lifting movement of the lifting means;

wiping the component off the lifting means with the carrier tape;

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picking up the component and the carrier tape as they are wiped off the lifting means with an upper guide and with a lower guide;

closing an upper side of the tape by applying an upper cover film; and closing an under side of the tape by applying a lower cover film.

- 47. (New) The method of claim 46, wherein the components are lifted from below by a lifting needle.
- 48. (New) The method of claim 47, wherein the lifting means comprises a vacuum pipette.
- 49. (New) The method of claim 48, wherein the vacuum pipette and the lifting needle carry out a vertical lifting movement through a first opening in the guide plate.
- 50. (New) The method of claim 48, wherein at least the vacuum pipette carries out a horizontal movement in a conveying direction of the carrier tape as it inserts a component into a passage opening in the carrier tape.
- 51. (New) The method of claim 48, wherein the lower cover film is applied underneath a vacuum suction device, which prevents the components falling out of the passage openings in the carrier tape.
- 52. (New) The method of claim 48, wherein the upper and lower cover film are applied by means of a heating device in an adhesive manner to the upper side of the tape and to the underside of the tape.
- 53. (New) The method of claim 48, wherein the upper and the lower cover film are adhesively bonded to the upper side and underside of the tape.
- 54. (New) The method of claim 48, wherein the carrier tape used is a paper tape which has passage openings to hold components.